NEW AND NOTEWORTHY PLANTS FROM FLORIDA

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ABSTRACT

Four taxa are reported as new to continental United States and the state of Florida: Azolla pinnata subsp. asiatica, Melochia nodiflora, Ochna serrulata, and Passiflora vitifolia. The reports for the non-native Lamium purpureum, Sida urens, and Sphaeropteris cooperi, and the native Crataegus opaca, Cyperus bipartitus, Cyperus eragrostis, and Geranium maculatum are the first for Florida. Here the occurrence of Torilis arvensis in Florida is verified (for a total of 12 new records for Florida), and 37 taxa representing significant collections are reported.

RESUMEN

Se citan cuatro taxa como nuevos para los Estados Unidos en la parte continental y el estado de Florida: Azolla pinnata subsp. asiatica, Melochia nodiflora, Ochna serrulata, y Passiflora vitifolia. Las citas de las alóctonas Lamium purpureum, Sida urens, y Sphaeropteris cooperi, y las nativas Crataegus opaca, Cyperus bipartitus, Cyperus eragrostis, y Geranium maculatum son las primeras para Florida. Se verifica aquí la presencia de Torilis arvensis in Florida (con un total de 12 nuevas citas para Florida), y se citan 37 taxa que representan colectas importantes.

INTRODUCTION

Recent field work throughout the state of Florida has resulted in the discovery of 12 taxa previously unreported for the state. An additional 37 taxa are reported here as significant collections that either confirm a previously reported taxon's presence here (second and third collections), or represent a significant distributional disjunction. Most of these are either protected by Florida law (Florida Chapter 5B-40) or are not native to the state (Wunderlin & Hansen 2008). In order to prevent overcollecting, precise locality data for protected taxa have not been included within the specimen citations.

NEW TO FLORIDA

Azolla pinnata R. Br. subsp. **asiatica** R.M.K. Saunders & K. Fowler (Azollaceae). This species, which has a known range of much of the old world tropics (Saunders & Fowler 1992), was reported as new to Florida in the Spring 2008 issue of Wildland Weeds (Brown 2008). Here, we provide voucher information and an infraspecific determination.

Voucher specimens. **Palm Beach Co.:** Loxahatchee River watershed, along a N-S canal, 26° 53' 47.6" N, 80° 8' 37.6" W (NAD 83), Jan 2008 [no day provided], *Bodle s.n.* (USF); unincorporated Jupiter area, canal 1/8 mi W of the intersection of 69th Dr and 149th Pl North, 26° 53' 47.6" N, 80° 8' 37.6" W (NAD 83), 25 Apr 2008, *Bodle s.n.* (FLAS).

Crataegus opaca Hook. & Arn. (Rosaceae). We consider *C. opaca* to be a distinct species and report it here as new to Florida, although it is sometimes placed in synonymy under *Crataegus aestivalis* (Walter) Torr. & A. Gray. It is currently known along the Gulf coast from Texas east to Alabama (USDA, NRCS 2008).

Voucher specimens. **Escambia Co.:** ca. 2 mi SE of South Flomaton, along the Escambia River, at public boat ramp near the Rte 4 bridge, 15 Mar 1981, Wilhelm 8553 (USF); W bank Escambia River N of Rte Old FL 4 bridge (now removed) S of old concrete boat ramp (via

Campbell Rd and Boat Ramp Rd), 24 Apr 1994, Burkhalter 14044 (UWFP); floodplain W side Escambia River N of boat ramp via Mystic Springs Rd, 17 Apr 1988, Burkhalter 10914 (UWFP). **Santa Rosa Co.:** near E bank Escambia River N of FL 4 bridge, 21 Mar 1985, Burkhalter 9881 (UWFP); E bank of Escambia River N of FL 184 bridge, 300 ft N of bridge, 23 Oct 1986, Burkhalter 10472 (UWFP).

Cyperus bipartitus Torr. (Cyperaceae). This is the first report for Florida of this common species of the continental United States and southeast Canada (USDA, NRCS 2008).

Voucher specimen. **Wakulla Co.:** Wakulla River, S of Hwy 98, 13 Sep 2007, *Anderson* 23523 (FSU). Species identification was confirmed by Richard Carter (VSC).

Cyperus eragrostis Lam. (Cyperaceae). This collection represents an apparently recent introduction; it was previously known within the southeast United States from South Carolina and Alabama, west to Texas (USDA, NRCS 2008).

Voucher specimen. Escambia Co.: corner of Nine Mile Rd and Untreiner Ave, near Pensacola, 28 Oct 2007, Burkhalter 21650 (UWFP).

Geranium maculatum L. (Geraniaceae). This is the first record for Florida of this common eastern North American plant.

Voucher specimen. **Gadsden Co.:** bottom of steep ravine of Willacoochee Creek drainage, ca. 4.5 air mi NE of Quincy, 14 Apr 2008, *May s.n.* (FSU).

Lamium purpureum L. (Lamiaceae). This represents the first record for Florida of an Eurasian weedy species naturalized throughout much of North America (USDA, NRCS 2008).

Voucher specimens. **Jackson Co.:** mesic calcareous woodland by Day Loop Rd, near NE end of Merritts Mill Pond, 7 Feb 2007, *Anderson* 22713 (FSU).

Melochia nodiflora Sw.(Malvaceae). This taxon, with a currently known range of Mexico, Central America, the Caribbean basin and northern South America (Bornstein 1989), is new to the continental United States.

Voucher specimen. **Miami-Dade Co.:** Everglades National Park, "Hole-in-the-Donut" restoration project, 5 Dec 2007, Sadle 548 (FNPS, USF).

Ochna serrulata (Hochst.) Walp. (Ochnaceae). This commonly cultivated species is native to South Africa and is new to the continental United States. This collection represents the first set of incontrovertibly wild specimens we have seen from Florida, where it has escaped cultivation.

Voucher specimen. Palm Beach Co.: High Ridge Scrub Natural Area, N central portion, ca. 500 ft distant from the nearest cultivated area (housing development), T45S, R43E, Sec. 9, 2 Mar 2007, Lietzky et al. s.n. (FLAS, USF).

Passiflora vitifolia Kunth (Passifloraceae). This taxon, which is native to Central and South America, is new to the continental United States, where it has escaped cultivation.

Voucher specimen. **Highlands Co.:** spreading rampantly along the shores of Lake August, Placid Lakes Subdivision, Lake Placid, 8 Jul 2008, *Pickert s.n.* (USF).

Sida urens L. (Malvaceae). This is the first report for Florida. It was previously known from the Continental United States only from Alabama (USDA, NRCS 2008). Its known range includes most of the Neotropics and Africa (Fryxell 1988).

Voucher specimen. Broward Co.: Long Key Natural Area, 0.5 mi S of Orange Drive on Flamingo Road, ca. 2.5 mi WNW of Cooper City, T50S, R40E, Sec. 23, 26, 16 Jan 2008, Howell 1048 (USF).

Sphaeropteris cooperi (Hook. ex F. Muell.) R.M. Tryon (Cyatheaceae). This is the first report from Florida for this species and the second for the continental United States. In the United States, it is currently known from Oregon (Wood 2008). It is native to tropical Australia.

Voucher specimen. **Broward Co.:** Tradewinds County Park, N and S of Sample Road, 0.5 mi E of Lyons Road; ca. 3 mi NW of Pompano Beach, T48S, R42E, Sec. 17, 20, 2 Apr. 2004, *Howell 779* (USF).

Torilis arvensis (Huds.) Link (Apiaceae). This species was reported for Florida by McGregor (1986), but we have seen no specimens to document its occurrence. This validates its occurrence in the state.

Voucher specimen. Escambia Co.: Tarkiln Bayou State Park, SW of Pensacola, 10 May 2008, Burkhalter 21793 (FSU, UWFP).

SIGNIFICANT NEW COLLECTIONS

Asparagus aethiopicus L.(Asparagaceae). These are the first reports of this Category I species (FLEPPC 2007) for northern Florida and the panhandle. Wunderlin and Hansen (2003) list it for the central and southern peninsula.

Voucher specimens. **Nassau Co.:** inside the St. Marys River inlet, just w of Fort Clinch population stretches for more than 100 m, 17 Nov 2005, *Meisenburg s.n.* (FLAS). **Okaloosa Co.:** South Santa Rosa Island, ca. 0.8 air mi W of Gulf Islands National Seashore, S side of US 98, W side of A5 complex, 30.39719908° N, 86.59745579° W, growing on a coastal dune with *Ilex vomitoria*, *Lantana camara*, and *Elaeagnus pungens*, 4 Jan 2003, *Herring 1643* (USF). **Wakulla Co.:** St. Marks National Wildlife Refuge, naturalized and spreading by old homesite near Wakulla Beach, 27 Jun 2008, *Anderson 23990* (FSU).

Asplenium dentatum L.(Aspleniaceae). This northerly disjunction of this State of Florida endangered species (Florida Chapter 5B-40) is at least 285 km.

Voucher specimen. Volusia Co.: Bulow Creek State Park, SSE of the jct. of Walter Boardman Ln and Old Dixie Highway, 20 Feb 2008, Kunzer et al. 2268 (FLAS, USF).

Asplenium erosum L.(Aspleniaceae). This county record represents a new northern limit for this State of Florida endangered species (Florida Chapter 5B-40).

Voucher specimen. **Flagler Co.:** Bulow Creek State Park, ca. 2.6 km NNW of the jct. of Walter Boardman Ln and Old Dixie Highway, 26 Dec 2008, *Kunzer et al.* 2699 (USF).

Brickellia cordifolia Elliott (Asteraceae). These specimens represent a county record and a new locality for a State of Florida endangered species (Florida Chapter 5B-40).

Voucher specimens. **Wakulla Co.:** edge of calcareous woods on N side Hwy 98, 4 Sep 2007, Anderson 23463 (FSU); N side of US 98, ca. 40 plants at edge of mowed bahiagrass right-of-way against edge of mixed hardwoods, with *Cercis, Carya, Fagus, Prunus serotina*, and *Andropogon*, 19 Sep 2007, Norris s.n. (USF).

Bromelia pinguin L. (Bromeliaceae). This is the second county record for Florida; the first, from Hillsborough Co., was in Wunderlin et al. (2002).

Voucher specimen. **Volusia Co.:** Tomoka State Park, between the youth camp and the park concession store, ca. 0.4 km due N of the Old Dixie Highway bridge at the Tomoka River, 29° 20' 43" N, 81° 5' 13" W, 1 Oct 2004, *Kunzer 684* (USF).

Calibrachoa parviflora (Juss.) D'Arcy (Solanaceae). This is the third county record for this species from Florida, all records of which are from panhandle counties.

Voucher specimen. Escambia Co.: W Pensacola Beach, Santa Rosa Island, 29 Apr 2007, Burkhalter 21362 (FSU, UWFP).

Campanula robinsiae Small (Campanulaceae). These collections represent a southern disjunction of over 50 km of this United States and Florida endangered species (Florida Chapter 5B-40) from its only previously known locality in the Chinsegut Hill area of Hernando County, FL.

Voucher specimens. **Hillsborough Co.:** Hillsborough River State Park, bordering a dry edge of a depression marsh, 22 Mar 2006, van Hoek et al. HR0442 (USF); Hillsborough River State Park, 16 Mar 2007, Jensen et al. HR0452 (USF).

Casuarina glauca Sieb. ex Spreng. (Casuarinaceae). First reports of this Category I exotic (FLEPPC, 2007) for northern Florida and the Panhandle. Wunderlin and Hansen (2003) list it for the central and southern peninsula.

Voucher specimens. Franklin Co.: naturalized (several trees at two sites) on Alligator Point, 21 Jun 2008, Keys s.n. (FSU). St. Johns Co.: 13th Lane, St. Augustine Beach, planted in yard and spreading to surrounding property near the beach, Meisenburg s.n. (FLAS).

Cyperus involucratus Rottb. (Cyperaceae). This is the first report of this exotic species from the Florida panhandle.

Voucher specimens. **Wakulla Co.:** St. Marks National Wildlife Refuge, in woods N edge of Panacea, 27 Sep 2007, Anderson 23610 (FSU); 3 Jun 2008, Anderson 23869 (FSU).

Desmodium triflorum (L.) DC. (Fabaceae). This is the first report from west of the Apalachicola River in the panhandle.

Voucher specimen. Escambia Co.: lawn of University of West Florida campus, near Pensacola, 5 Nov 2006, Burkhalter 21256 (FSU, UWFP).

Dyschoriste angusta (A. Gray) Small (Acanthaceae). In Florida, this species had previously been known only from the southern half of the peninsula from southern Polk County southward. The Hernando County specimen is a northwest disjunction of ca. 160 km, and the Wakulla County specimens are a northwest disjunction of ca. 240 km from the Hernando County locality.

Voucher specimens. **Hernando Co.:** Weekiwachee Preserve, ca. 2.4 km W of the jct. of C-595 and US 19, ca. 3.3 km NNW of the junction of the Hernando/Pasco County line with US 19, 28° 38' 58" N, 82° 27' 48" W, 10 Jun 2006, *Kunzer et al. 1824* (USF). **Wakulla Co.:** St. Marks National Wildlife Refuge, grassy roadbed (Rd 203) in coastal wetlands/flatwoods, 8 Sep 2006, *Anderson 22360* (FSU); loamy sand beside Rd 205 just N of Rd 206, 17 May 2007, *Anderson 23060* (FSU); 0.2 mi N of Rd 202 on Rd 205, 6 Jun 2008, *Anderson 23917* (FSU); ecotone between grassy road and tidal marsh at S end of Rd 04, 6 Jun 2008, *Anderson 23924* (FSU).

Eragrostis unioloides (Retz.) Nees ex Steud. (Poaceae). This specimen represents a southern disjunction of at least 130 km from the nearest known population in Polk County, Florida.

Voucher specimen. Lee Co.: ca. 6.5 mi E of the jct. of I-75 and Corkscrew Road (C-850), S of Corkscrew Road, 26° 26' 31.2" N, 81° 40'21.3" W, 17 Sep 2005, Kunzer 1137 (USF).

Ficus aurea Nutt. (Moraceae). This is a new northernmost station for this taxon in Florida.

Voucher specimen. Volusia Co.: Ponce Inlet, Lighthouse Point Park, ca. 250 m SE of the lighthouse, 29° 4' 49" N, 80° 55' 30" W, 12 Aug 2005, Kunzer et al. 1107 (USF).

Hypericum canadense L. (Clusiaceae). This species is new to the central panhandle; it was previously known only from extreme northeast and extreme west Florida.

Voucher specimen. Calhoun Co.: locally common amongst grasses and sedges in wet sandy loam bordering ditch along Rte 167 in extreme NW corner of county (Tenmile Creek drainage), 30.54583° N.; 85.36938° W, 18 Aug 2008, Anderson 24119 (FSU).

Jasminum mesnyi Hance (Oleaceae). This is the first record from the Florida panhandle.

Voucher specimen. **Wakulla Co.:** St. Marks National Wildlife Refuge, naturalized hedge spreading near old shop area, Rd 132, 3 Apr 2008, *Anderson* 23743 (FSU).

Juncus bufonius L. (Juncaceae). This collection represents a new southernmost station for this taxon in Florida.

Voucher specimen. Polk Co.: Colt Creek State Park, ca. 3.3 km SE of FL 471 bridge over the Withlacoochee River, ca. 4.6 km NE of jct. FL 471 and US 98,28° 17' 13.4" N, 82° 2' 21.1" W, 15 Apr 2008, Kunzer & Hansen 2391 (USF).

Lepuropetalon spathulatum (Muhl.) Elliott (Parnassiaceae). These are the second and third county records for this State of Florida endangered species (Florida Chapter 5B-40), and all of these are considerably west of its previously known records in Gadsten County.

Voucher specimens. **Escambia Co.:** abundant in ditch near Pensacola Blvd, 29 Mar 2008, Burkhalter 21744 (FSU, UWFP). **Walton Co.:** ditch beside Hwy, DeFuniak Springs, 15 Mar 2008, Burkhalter 21720 (FSU, UWFP).

Listera australis Lindl. (Orchidaceae). This easily overlooked species is known sporadically throughout north Florida and the northern Florida peninsula (Wunderlin & Hansen, 2008), and westward to Texas and northward to Quebec, Canada (USDA, NRCS 2008). This station represents the new southern limit for the species, which is threatened in Florida (Florida Chapter 5B-40).

Voucher specimen. Sarasota Co.: N of Plantation Boulevard, 14 Jan 2008, Kunzer 2266 (FLAS, USF).

Mecardonia procumbens (Mill.) Small (Veronicaceae). This specimen represents the first record of this species from the Florida panhandle.

Voucher specimen. Escambia Co.: Hwy 29 just S of Church St, near Century, 19 Apr 2008, Burkhalter 21779 (FSU, UWFP).

Momordica charantia L. (Cucurbitaceae). This is the second report for the panhandle and represents a new county record for the western panhandle. The first record for the panhandle was from Leon County (Anderson 2007).

Voucher specimen. **Escambia Co.:** fence row at corner Gulf St and Jackson St, near Pensacola, 6 Oct 2007, Burkhalter 21638 (FSU, UWFP).

Peltophorum pterocarpum (DC.) Backer ex K. Heyne (Fabaceae). Previously known from Miami-Dade County and the Monroe County keys, this is the third county record from Florida.

Voucher specimen. Lee Co.: South Fort Myers (unincorporated), on the W side of Metro Parkway, ca. 0.4 km SSW of the jct. of Metro Parkway and Colonial Boulevard (FL 884), just E of Tenmile Canal, 81° 51' 11" W 26° 35' 27" N, 29 Sep 2006, Kunzer 1900 (USF).

Phlebodium aureum (L.) J. Sm. (Polypodiaceae). This is the second county record from the Florida panhandle.

Voucher specimen. Wakulla Co.: St. Marks National Wildlife Refuge, fallen palm trunk beside Northline Rd (rd 200), 31 Aug 2006, Anderson 22310 (FSU).

Polygala verticillata L. var. **isocyta** Fernald (Polygalaceae). This species was previously known in the Florida panhandle from a site reported by Anderson (1986). That population has been extirpated, so these new sites verify its continuance in the county (and the panhandle) in more natural settings.

Voucher specimens. Wakulla Co.: St. Marks National Wildlife Refuge, Rd 205 just N of Rd 206, 17 May 2007, Anderson 23062 (FSU); edge of Rd 108 at junction Rd 107, 17 Jun 2008, Anderson 23951 (FSU).

Ranunculus pusillus Poir. (Ranunculaceae). These collections, only ca. 25 km apart, represent a southern disjunction of at least 140 km from the nearest known station in Alachua County. (Wunderlin & Hansen 2008).

Voucher specimens. **Hillsborough Co.:** Hillsborough River State Park, bordering a cypress-ringed depression marsh on the S side of the Fort King Trail, ca. 200 yds W of US 301, T27S, R21E, Sec. 17, SE¼ of NW¼, 22 Mar 2006, *vanHoek et al. HR0436* (USF). **Polk Co.:** Colt Creek State Park, ca. 4.8 km SE of FL 471 bridge over the Withlacoochee River, ca. 3.2 km NNE of jct. FL 471 and US 98, 28° 16′ 4.1″ N, 82° 2′ 32.9″ W, 3 Apr 2008, *Kunzer et al.* 2320 (USF).

Richardia grandiflora (Cham. & Schltdl.) Steud. (Rubiaceae). This species appears to be rapidly spreading throughout peninsular Florida, and the Alachua County specimen represents the current northernmost station in the state.

Voucher specimens. **Alachua Co.:** Gainesville, 2950 Archer Road, weed growing in lawn, 22 Jul 2008, Weaver 5176 (PIGH, USF). **Volusia Co.:** South Daytona, along the S side of Reed Canal Road, ca. 100 m E of the jct. of Reed Canal Road and Clyde Morris Boulevard, T16S, R33E, Sec. 6, NW¼ of NE¼, 24 Nov 2005, *Kunzer 1221* (USF); along shoulder of Indian Lake Road, next to Volusia County Public Library, ca. 0.5 mi N of US 92, 5 mi W of I-95, T15S, R31E, Sec. 36, 13 Jul 2007, *Slaughter 15741* (USF).

Rumohra adiantiformis (G. Forst.) Ching (Dryopteridaceae). This is the first record from the Florida panhandle.

Voucher specimen. Franklin Co.: naturalized under oaks along Bay Street, Apalachicola, 29 Dec 2007, Anderson 23624 (FSU).

Schefflera arboricola (Hayata) Merr. (Araliaceae). This collection represents a disjunction of over 200 km and a new northern station for this taxon.

Voucher specimen. **Volusia Co.:** Ponce Inlet, Lighthouse Point Park, ca. 250 m SE of the lighthouse, in hammock just upland of coastal swale, 80° 55′ 30″ W 29° 4′ 49″ N, 12 Aug 2005, *Kunzer et al.* 1108 (USF).

Spigelia loganioides (Torr. & A.Gray ex Endl. & Fenzl) A. DC. (Strychnaceae). The vouchers for this endangered (Florida Chapter 5B-40) endemic species represent an eastern disjunction of at least 85 km from the eastern edge of this species' known range of central Marion County south to north-central Sumter County and west to southern Levy County.

Voucher specimens. Volusia Co.: Bulow Creek State Park, 22 Dec 2006, Kunzer & DuToit 2027 (USF); Bulow Creek State Park, 7 Aug 2008, Kunzer et al. 2027 (USF).

Spiranthes xitchetuckneensis P.M. Br. (Orchidaceae). This taxon is new to the Florida panhandle.

Voucher specimen. **Wakulla Co.:** St. Marks National Wildlife Refuge, cypress-maple-gum swamp bordering Shepherd's Spring, 13 Nov 2006, *Anderson* 22637 (FSU).

Spiranthes lucayana (Britton) Cogn. (Orchidaceae). Endangered in the State of Florida (Florida Chapter 5B-40), this population and county record was first discovered by Charles DuToit, the Park Biologist for the Tomoka Basin Parks State Park complex. Paul Martin Brown has visited this site and confirmed the presence of this species within the park (C. DuToit, pers. comm.).

Voucher specimen. Volusia Co.: North Peninsula State Park, 13 Mar 2007, Kunzer et al. 2078 (USF).

Stachys crenata Raf. (Lamiaceae). This is the only known station outside of Gadsden County for this state endangered taxon (Florida Chapter 5B-40).

Voucher specimen. Hillsborough Co.: Hillsborough River State Park, roadside, 2 May 2008, van Hoek & Parsons 2405 (USF); Hillsborough River State Park, 18 May 2008, van Hoek & Parsons 2406 (USF).

Tillandsia pruinosa Sw. (Bromeliaceae). This species is endangered in the State of Florida (Florida Chapter 5B-40). In Florida this taxon has only been documented from conservation land in Collier County, with vouchers only being known from the areas of Fakahatchee Strand Preserve State Park and Collier-Seminole State Park. The closer of these, Fakahatchee Strand Preserve State Park, is approximately 60 km to the southeast of this new locality. The collection represents a range extension that is geographically minor but floristically significant.

Voucher specimen. Lee Co.: 18 Oct 2007, Kunzer et al. 2205 (USF).

Tridens carolinianus (Steud.) Henrad (Poaceae). This collection represents a southerly disjunction of over 235 km from the nearest known locality in Suwannee County, FL.

Voucher specimen. Hillsborough Co.: "Fishhawk" Preserve, ca. 0.5 mi S of the Alafia River, ca. 0.25 mi N of Fishhawk Boulevard and N of powerline right-of-way, ca. 1 mi E of Bell Shoals, T30S, R21E, Sec. 19, 30 Nov 2006, Dickman s.n. (USF).

Urochloa piligera (Muell. ex Benth.) R.D. Webster (Poaceae). This is the first report for this species from Florida west of the Apalachicola River.

Voucher specimen. Escambia Co.: along Palafox St near Pensacola, 22 Jul 2007, Burkhalter 21464 (FSU, UWFP).

Urochloa plantaginea (Link) R.D. Webster (Poaceae). This is the first report for this species from Florida west of the Apalachicola River.

Voucher specimen. **Escambia Co.:** S side Nine Mile Rd near Bowman Ave, near Pensacola, 23 Sep 2006, *Burkhalter* 21096 (FSU, UWFP).

Veronica polita Fr. (Veronicaceae). This is the second county of record for this species in Florida, the other being Escambia County.

Voucher specimens. **Leon Co.:** lawn along Robinhood Rd, Tallahassee, 14 May 2008, *Anderson 23817* (FSU); edge of woods on Lakeshore Dr, Tallahassee, 14 May 2008, *Anderson 23819* (FSU).

Xyris longisepala Kral (Xyridaceae). These represent a new county record for this Panhandle endemic species, which is endangered in Florida (Florida Chapter 5B-40).

Voucher specimens. **Wakulla Co.:** St. Marks National Wildlife Refuge, ditch, 26 Jul 2007, Anderson 23379 (FSU); edge of Ilex pond, 4 Sep 2007, Anderson 23470 (FSU); edge of Hypericum zone of pond, 4 Sep 2007, Anderson 23479 (FSU); cypress pond, 11 Sep 2007, Anderson 23500 (FSU).

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